



# UNITED STATES PATENT AND TRADEMARK OFFICE

6W  
UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/920,104	08/01/2001	Yasushi Fujinami	450100-03401	4849
20999	7590	04/03/2007	EXAMINER	
FROMMER LAWRENCE & HAUG 745. FIFTH AVENUE- 10TH FL. NEW YORK, NY 10151			SHIBRU, HELEN	
		ART UNIT	PAPER NUMBER	
		2621		

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	04/03/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/920,104	FUJINAMI, YASUSHI	
	<b>Examiner</b>	<b>Art Unit</b>	
	HELEN SHIBRU	2621	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 15 March 2007.  
 2a) This action is **FINAL**.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-33 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1-33 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) Notice of References Cited (PTO-892)  
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  
 3) Information Disclosure Statement(s) (PTO/SB/08)  
 Paper No(s)/Mail Date \_\_\_\_\_

4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date. \_\_\_\_\_

5) Notice of Informal Patent Application  
 6) Other: \_\_\_\_\_

***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 03/15/2007 has been entered.

***Response to Amendment***

2. The amendments filed on 03/15/2007 have been entered and made of record. Claims 1-33 are pending.

***Response to Arguments***

3. Applicant's arguments with respect to claims 1-33 have been considered but are moot in view of the new ground(s) of rejection.

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-2, 4-5, 14-16, 18, and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lownes (EP 0 993 185 A2) in view of Nishimura (US Pat. No. 5,412,418).

Regarding claim 1, Lownes discloses an image processing apparatus comprising:  
a playback section for playing back image data (see page 5 lines 19-21, page 6 lines 35-36 and fig. 2, VCR, TV);

a transmission section for transmitting the played back image data to a reception apparatus through a predetermined transmission line (see page 3 lines 23-30, page 4 lines 3-20 and 49-51 and page 7 lines 3-11); and

a control section for controlling, when an instruction to temporarily stop the playback of the image data is received, said playback section and said

transmission section to stop the playback and the transmission of the image data (see fig. 5 and page 12-22, status: stop pause, record, etc.), respectively, and further controlling said transmission section to transmit a message representing that the playback of the image data is temporarily stopped to said reception apparatus through said transmission line (see abstract, page 7 lines 45-51 and figures 2, 4, and 6).

Claim 1 differs from Lownes in that the claim further requires the control section establishes on one transmission line a first channel for transmission of said image data and a second channel for transmission of said message.

In the same field of endeavor Nishimura discloses ISDN (integrated services digital network) has two communication channels, channel one for communication of video and audio data and channel two for transmitting control information such as messages (see col. 6 lines 13-19). Nishimura further discloses a line interface, component 7 in fig. 1, for transmitting and receiving a message information, transmitting and receiving the multiplexed video and audio signals, making a connection with the ISDN, and sending various messages on the communication line, etc. Therefore in light of the teaching in Nishimura it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Lownes by providing one transmission line to transmit two channels in order to improve communication.

Regarding claim 2, Lownes discloses when an instruction to cancel the temporary stop is received, said control section controls said playback section and said transmission section to resume the playback and the transmission of the image data, respectively, and further controls said transmission section to transmit a message representing that the playback of the image data is resumed to said reception apparatus through said transmission line (see page 6 lines 3-8, page 7 lines 12-44 and line 51-page 8 line 5).

Note to the Applicant: The US PTO considers the Applicant's "or" language to be anticipated by any reference containing one of the subsequent corresponding elements.

Regarding claim 4, Lownes discloses transmission lines compiles with the IEEE 1394 standard (see page 4 lines 4-20).

Regarding claim 5, the limitations of claim 5 can be found in claims 1 and 2 above. Therefore claim 5 is analyzed and rejected for the same reason as discussed in claims 1 and 2 above.

Regarding claim 14, Lownes discloses an image processing apparatus, comprising:  
a playback section for playing back image data (see page 5 lines 19-21, page 6 lines 35-36 and fig. 2, VCR, TV);  
a transmission section for transmitting the played back image data to a reception apparatus through a predetermined network (see page 3 lines 23-30, page 4 lines 3-20 and 49-51 and page 7 lines 3-11, tuner, transport stream); and  
a control section for controlling, when a message representing that an instruction to temporarily stop the playback of the image data is issued through said network, said transmission

section to stop the transmission of the image data (see fig. 5 and page 12-22, status: stop pause, record, etc., see abstract, page 7 lines 45-51 and figures 2, 4, and 6).

Regarding claim 15, Lownes discloses when a message representing that an instruction to cancel the temporary stop is received through said network, said control section controls said transmission section to resume the transmission of the image data (see page 4 lines 13-20, page 6 lines 3-8, page 7 lines 12-44 and line 51-page 8 line 5).

Regarding claim 16, Lownes discloses wherein said network complies with the IEEE 1394 standard (see page 4 lines 3-20).

Method claim 18 is rejected for the same reason as discussed in apparatus claim 14 above.

Regarding claim 27, see rejection of claim 1 above and figures 1a, 1b, 3b and c and 5.

6. Claim 3 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lownes in view of Nishimura (US Pat. No. 5,412,418) and further in view of Sugiyama (US Pat. No. 5,815,631).

Regarding claim 3, claim 3 differ from Lownes and Nishimura in that the claim further requires transmission section transmits the image data also to an additional reception apparatus or apparatuses through said transmission line. Although Lownes fails to disclose an additional reception apparatus or apparatuses, Lownes discloses a multiplexer for selecting received information from a digital VHS video cassette recorder (DVHS VCR) (see page 4 lines 3-7 Of Lownes). Lownes further discloses the status information is transferred between the digital VCR and the CPU via asynchronous data transfer mode (see page 4 lines 7-12).

In the same field of endeavor Sugiyama discloses the image data is transmitted to an additional reception apparatus or apparatuses (see col. 3 line 35-col. 4 line 28, fig. 1, and fig. 2 VTR 2, 3, 4, and 5). Sugiyama further teaches the TV and the VTRs include input and output selector to receive an input signal from and to supply an output signal to other devices (see col. 3 lines 31-33, 44-47, 54-62 and col. 4 lines 6-11 and line 20-23). In light of the teaching in Sugiyama, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the apparatus of Lownes by providing an auxiliary reproduction signal input unit in order to control a number of AV devices.

Claim 17 is rejected for the same reason as discusses in claim 3 above.

7. Claims 7-10, 11, 13, 20-24, and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lownes in view of Nishimura (US Pat. No. 5,412,418) and further in view of Gerszberg (US Pat. No. 6,020, 916).

Regarding claim 7, Lownes discloses an image processing apparatus, comprising:  
a reception section for receiving image data transmitted thereto from a transmission apparatus through a predetermined transmission line (see page 3 lines 23-30, page 4 lines 3-12, and page 7 lines 3-11, VCR, STB, TV);  
a storage section having a storage capacity at least for one screen for storing the image data received by, said reception section (see page 4 lines 7-12, page 6 lines 51-54 and fig. 3B and 3C, buffer); and  
a control section for controlling a display apparatus to display the image data received by said reception section and controlling (see page 7 lines 12-51 and fig. 6). Claim 7 differs from Lownes in that the claim further requires when a message representing that playback of the

image data is temporarily stopped is received through said transmission line, said display apparatus to repetitively display the image data stored said storage section.

In the same field of endeavor Nishimura discloses ISDN (integrated services digital network) has two communication channels, channel one for communication of video and audio data and channel two for transmitting control information such as messages (see col. 6 lines 13-19). Nishimura further discloses a line interface, component 7 in fig. 1, for transmitting and receiving a message information, transmitting and receiving the multiplexed video and audio signals, making a connection with the ISDN, and sending various messages on the communication line, etc.

In the same field of endeavor Gerszberg discloses a video teleconferencing with a plurality of parties. Gerszberg teaches when a particular video is muted, a repeated loop of the last few moments of the video displayed (see col. 8 lines 40-59). Therefore in light of the teaching in Gerszberg it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the proposed combination of Lownes and Nishimura by providing a repetitive display on the screen in order to show the outgoing video to the other parties.

Regarding claim 8, Lownes discloses when a message representing that the playback of the image data is resumed is received through said transmission line, said control section controls said display section to display the image data received thereafter by said reception section (see page 7 line 45-page 8 line 5), and wherein said control section supervises the second channel for delivery of said message (see claim rejection 1 above).

Regarding claim 9, Lownes discloses storage section has a storage capacity for one screen (page 4 lines 7-12, page 6 lines 51-54, and fig. 3B and 3C buffer).

Regarding claim 10, Lownes discloses transmission line complies with the IEEE 1394 standard (see page 4 lines 4-12).

Regarding claim 11, the limitations of claim 11 can be found in claim 7 above. Therefore claim 11 is analyzed and rejected for the same reason as discussed in claim 7.

Regarding claim 13, the limitations of claim 13 can be found in claims 1 and 7. Therefore claim 13 is analyzed and rejected for the same reason as discussed in claims 1 and 7 above.

Regarding claims 20 and 24, the limitations of claims 20 and 24 can be found in claims 1, 2, 7, and 14 above. Therefore claims 20 and 24 are analyzed and rejected for the same reason as discussed in claims 1, 2, 7, and 14.

Claim 21 is rejected for the same reason as discussed in claims 2 and 8 above.

Claim 22 is rejected for the same reason as discussed in claim 9 above.

Claim 23 is rejected for the same reason as discussed in claim 16 above.

Regarding claim 26, the limitations of claim 26 can be found in claim 1, 7, 14, and 20. Therefore claim 26 is analyzed and rejected for the same reason as discussed in claims 1, 7, 14, and 20 above.

8. Claims 6, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lownes in view of Nishimura and further in view of Official Notice.

Regarding claims 6 and 19, the limitations in claims 6 and 19 can be found in the apparatus claim 1 and 14 respectively. However claims 6 and 19 further require a recording medium on which a program to be executed by a computer is recorded, and causing a computer

to execute steps as claimed in claims 1 and 14. Official notice is taken that it is well known in the art to embody inventions in software to be executed by a computer. Therefore, it would have been obvious to one of ordinary skill in the art to modify the teaching of Lownes and Nishimura by having a record medium capable of being read by a computer tangibly embodying a program causing the computer to execute the steps of the apparatus claim. The motivation for having a recordable by a computer is that such a method can be easily enhanced and executed multiple times.

9. Claims 12 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lownes in view of Gerszberg (US Pat. No. 6,020,916) and further in view of Official Notice.

Regarding claims 12 and 25, the limitations in claims 2 and 25 can be found in the apparatus claim 7 and 20 respectively. However claims 12 and 25 further require a recording medium on which a program to be executed by a computer is recorded, and causing a computer to execute steps as claimed in claims 7 and 20. Official notice is taken that it is well known in the art to embody inventions in software to be executed by a computer. Therefore, it would have been obvious to one of ordinary skill in the art to modify the teaching of Lownes and Gerszberg by having a record medium capable of being read by a computer tangibly embodying a program causing the computer to execute the steps of the apparatus claim. The motivation for having a recordable by a computer is that such a method can be easily enhanced and executed multiple times.

10. Claims 28-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lownes in view of Ryu (US Pat. No. 5,442,452) and further in view of Gerszberg (US Pat. No. 6,020,916) and further in view of Nishimura (US Pat. No. 5,412,418).

Regarding claim 28, Lownes discloses an audio/video processing apparatus connected to a network, comprising:

a reception section operable to receiving audio/video contents transmitted thereto from a transmission apparatus through a network (see page 5 lines 19-21, page 6 lines 35-36 and fig. 2);

a storage section having a storage capacity at least for one screen for storing the audio/video contents received by said reception section (see page 4 lines 7-12, page 6 lines 51-54 and fig. 3B and 3C, buffer); and

a control section operable to controlling a playback apparatus to playback audio/video contents received by said reception section and controlling (see page 7 lines 12-51 and figures 2, 4 and 6).

Claim 28 differs from Lownes in that the claim further requires when a message representing a pause mode is received through a transmission line, said playback apparatus to repetitively display the audio/video contents stored in said storage section based on the message representing a pause mode.

In the same field of endeavor Ryu discloses a sound mode switching method for multichannel selection in a picture-in-picture video device (see Abstract). Ryu further discloses displaying a main picture image from a first channel and a sub-picture image from a second channel (see claim 10 and fig. 1).

In the same field of endeavor Gerszberg discloses a video teleconferencing with a plurality of parties. Gerszberg teaches when a particular video is muted, a repeated loop of the last few moments of the video displayed (see col. 8 lines 40-59). Therefore in light of the teaching in Gerszberg it would have been obvious to one of ordinary skill in the art at the time

the invention was made to modify Lownes by providing a repetitive display on the screen in order to show the outgoing video to the other parties.

Claim 28 differs from the above proposed combination of Lownes, Ryu and Gerszberg in that the claim further requires image data and message data are transmitted through the same transmission line.

In the same field of endeavor Nishimura discloses ISDN (integrated services digital network) has two communication channels, channel one for communication of video and audio data and channel two for transmitting control information such as messages (see col. 6 lines 13-19). Nishimura further discloses a line interface, component 7 in fig. 1, for transmitting and receiving a message information, transmitting and receiving the multiplexed video and audio signals, making a connection with the ISDN, and sending various messages on the communication line, etc. Therefore in light of the teaching in Nishimura it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the proposed combination by providing one transmission line to transmit two channels in order to improve communication.

Regarding claims 29-30, the limitations of claims 29-30 is found in claim 28. Therefore claim 29-30 are analyzed and rejected for the same reason as discussed in claim 28 above.

Apparatus claims 31-33 are rejected for the same reason as discussed in claims 28-30 above.

*Conclusion*

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HELEN SHIBRU whose telephone number is (571) 272-7329. The examiner can normally be reached on M-F, 8:30AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, THAI Q. TRAN can be reached on (571) 272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Helen Shibru  
March 27, 2007

  
James J. Groody  
Supervisory Patent Examiner  
Art Unit 2621